

AMENDMENTS TO THE CLAIMS

This listing replaces all prior versions and listings of claims in the application.

Listing of Claims

1-128.(Cancelled)

129. (New) A method of treating urinary incontinence, comprising injecting into a urethra a hydrogel that comprises about 0.5% to 25% by weight of a polymer, based on the total weight of said hydrogel, wherein said polymer is the product of a method comprising combining acrylamide and methylene bis-acrylamide, and wherein said hydrogel includes less than 50 ppm monomeric units, has a complex viscosity of about 2 to 50 Pas, and has an elasticity modulus of about 1 to 200 Pa.

130. (New) The method according to claim 129, wherein said polymer is prepared by combining acrylamide and methylene bis-acrylamide in a molar ratio of 150:1 to 1000:1.

131. (New) The method according to claim 129, wherein said hydrogel comprises less than 10% by weight of said polymer, based on the total weight of the hydrogel.

132. (New) The method according to claim 131, wherein said hydrogel comprises less than 5% by weight of said polymer, based on the total weight of the hydrogel.

133. (New) The method according to claim 132 wherein said hydrogel comprises less than 3.5% by weight of said polymer, based on the total weight of the hydrogel.

134. (New) The method according to claim 129, wherein said hydrogel has a complex viscosity of about 2 to 20 Pas.

135. (New) The method according to claim 129, wherein said hydrogel further comprises at least 75% by weight pyrogen-free water or saline solution.

136. (New) The method according to claim 129, wherein said hydrogel is homogenized.

137. (New) The method according to claim 129, wherein said polymer is cross-linked polyacrylamide.

138. (New) The method according to claim 129, wherein said hydrogel has an elasticity modulus of about 5 to 150 Pa.
139. (New) The method according to claim 138, wherein said hydrogel has an elasticity modulus of about 10 to 100 Pa.
140. (New) The method according to claim 129, wherein said hydrogel includes less than 10 ppm monomeric units.
141. (New) The method according to claim 135, wherein said hydrogel:
- (A) comprises at least 1.5% by weight polyacrylamide, less than 10% by weight polyacrylamide, and at least 90% by weight pyrogen-free water or saline solution, based on the total weight of the hydrogel; and
 - (B) includes less than 10 ppm monomeric units, has a complex viscosity of about 2 to 20 Pas, and has an elasticity modulus of about 1 to 100 Pa.
142. (New) The method according to claim 129, wherein said incontinence is selected from the group consisting of stress incontinence, reflex incontinence, and urge incontinence.
143. (New) The method according to claim 129, wherein said hydrogel is injected into the submucosa of the urethra.
144. (New) The method according to claim 129, wherein said injecting of said hydrogel comprises injections at positions 10, 2, and 6 o'clock of the cross-sectional axis of the urethra.
145. (New) The method according to claim 129, wherein said injecting further comprises an introducing of cells.
146. (New) The method according to claim 145, wherein said cells comprise stem cells.
147. (New) The method according to claim 145, wherein said cells allow for cellular engraftment to the surrounding tissue in the urethra.